

**Complete if Known**

*(use as many sheets as necessary)*

Application Number	10/049,830
Confirmation Number	6300
Filing Date	February 19, 2002
First Named Inventor	Kenji TSUKADA
Art Unit	2853
Examiner Name	Alfred E. Dudding <i>AN DO</i>
Attorney Docket Number	Q67368

Sheet	1	of	1
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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
<i>10</i>		US 5,841,454		11/24/1998	Hall et al.
<i>10</i>		US 6,536,861		03/25/2003	Usui et al.
<i>10</i>		US 6,003,966		12/21/1999	Ahn, Byung-Sun
<i>10</i>		US 5,179,389		01/12/1993	Arai et al.
<i>10</i>		US 4,570,482		02/18/1986	Murata et al.
<i>10</i>		US 5,233,369		08/03/1993	Carlotta et al.
		US			
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.



Substitute for Form 1449 A &amp; B/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 1 of 6

## U.S. PATENT DOCUMENTS

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<i>AB</i>	<i>5</i>	US 4,329,875		05/18/82	Nolting et al.
<i>AB</i>		US 4,703,652		11/03/87	Itoh et al.
<i>AB</i>		US 6,089,686		07/18/00	Thornton et al.
<i>AB</i>		US 6,089,688		07/18/00	Froger et al.
<i>AB</i>		US 3,110,890		11/12/63	V.C. Westcott et al.
<i>AB</i>		US 5,410,518		4/25/1995	Birkett
<i>AB</i>		US 4,594,891		6/17/1986	Benz et al.
<i>AB</i>		US 6,302,527		10/16/2001	Walker
<i>AB</i>		US 6,050,669		4/18/2000	Yano et al.
<i>AB</i>		US 6,012,793		1/11/2000	Haigo
<i>AB</i>		US 5,877,997		3/2/1999	Fell
<i>AB</i>		US 4,853,718		8/1/1989	El Hatem et al.
<i>AB</i>		US 5,035,140		7/30/1991	Daniels et al.
<i>AB</i>		US 5,583,544		12/10/1996	Stamer et al.
<i>AB</i>		US 5,619,238		4/8/1997	Higuma et al.
<i>AB</i>		US 5,675,367		10/7/1997	Scheffelin et al.
<i>AB</i>		US 3,220,258		11/30/1965	Rod
<i>AB</i>		US 4,636,814		1/13/1987	Terasawa
<i>AB</i>		US 5,473,353		12/5/1995	Soucemarianadin et al.
<i>AB</i>		US 5,616,929		04/01/97	Hara
<i>AB</i>		US 4,479,982		10/30/84	Nilsson et al.

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
<i>AB</i>		JP	58-205820		11/30/83		
<i>AB</i>		FR	2,572,519		05/02/86		
<i>AB</i>		JP	60-4820		01/11/85		
<i>AB</i>		EP	0 684 136	A2 & A3	11/29/95		

## NON PATENT LITERATURE DOCUMENTS

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<i>AB</i>		Patent Abstracts of Japan, 11020186, 04/30/99, vol. 1999, no. 4	
<i>AB</i>		Patent Abstracts of Japan, 02034353, vol. 014, no. 186	
<i>AB</i>		Patent Abstracts of Japan, 07081290, vol. 1995, no. 06	

Examiner Signature

*Alfred E. Dudding*

Date Considered

3/2/05

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<i>AD</i>		US 4,811,595		3/14/1989	Marciniak et al.
		US 4,770,038		9/13/1988	Zuckerwar et al.
		US 5,353,631		10/11/1994	Woringer et al.
		US 5,949,447		9/7/1999	Arai et al.
		US 5,774,136		6/30/1998	Barbehenn et al.
		US 5,712,667		1/27/1998	Sato
		US 6,164,744		12/26/2000	Froger et al.
		US 3,832,900		9/3/1974	Ross
		US 3,703,693		11/21/1972	Levinn
		US 4,403,227		9/6/1983	Bertschy et al.
		US 6,007,190		12/28/1999	Murray et al.
		US 6,312,106		11/6/2001	Walker
		US 6,312,115		11/6/2001	Hara et al.
		US 6,390,590		5/21/2002	Hansburg
		US 5,463,377		10/31/1995	Kronberg
		US 5,788,819		8/4/1998	Onishi et al.
		US 5,975,102		11/2/1999	Schalk
		US 6,044,694		4/4/2000	Anderson et al.
		US 6,312,074		11/6/2001	Walker
		US 5,737,963		4/14/1998	Eckert et al.
		US 5,747,689		5/5/1998	Hampo et al.
		US 5,788,388		8/4/1998	Cowger et al.
		US 4,984,457		1/15/1991	Morris
		US 5,315,317		5/24/1994	Terasawa et al.
		US 5,689,288		11/18/1997	Wimmer et al.
		US 5,697,248		12/16/1997	Brown
		US 3,889,247		6/10/1975	Voll
		US 5,586,085		12/17/1996	Lichte
		US 4,984,449		1/15/1991	Caldwell et al.
		US 5,793,705		8/11/1998	Gazis et al.
		US 4,008,612		2/22/1977	Nagaoka et al.
		US 4,107,994		8/22/1978	Sogo
		US 4,419,677		12/6/1983	Kasugayama et al.
		US 4,796,782		1/10/1989	Wales et al.
		US 6,470,744	B1	10-29-02	Usui et al.
		US 5,841,454		11/24/1998	Hall et al.
		US 6,536,861		03/25/2003	Usui et al.
		US 6,003,966		12/21/1999	Ahn, Byung-Sun
		US 5,179,389		01/12/1993	Arai et al.

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Sheet <u>3</u> of <u>6</u>			Confirmation Number	6300
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<i>AD</i>	<i>3</i>	US 4,570,482		02/18/1986	Murata et al.
<i>AD</i>	<i>3</i>	US 5,233,369		08/03/1993	Carlotta et al.
<i>AD</i>	<i>3</i>	US 6,361,136		03/26/02	Watanabe et al.
<i>AD</i>	<i>3</i>	US 6,536,861		03/25/03	Usui

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>4</sup>
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<i>AD</i>	<i>3</i>	WO	98/31548		7/23/1998	Hewlett-Packard Company	<i>3</i>
<i>AD</i>	<i>3</i>	JP	63247047		10/13/1988	Canon Inc.	<i>3</i>
<i>AD</i>	<i>3</i>	GB	2 304 898		3/26/1997	The Whitaker Corporation	<i>3</i>
<i>AD</i>	<i>3</i>	WO	98/09139		3/5/1998	The General Electric Company	<i>3</i>
<i>AD</i>	<i>3</i>	EP	0 873 873		10/28/1998	Hewlett-Packard Company	<i>3</i>
<i>AD</i>	<i>3</i>	JP	06297726		10/25/1994	Canon Inc.	<i>3</i>
<i>AD</i>	<i>3</i>	JP	62-95225		5/1/1987	Canon Inc.	<i>3</i>
<i>AD</i>	<i>3</i>	EP	0 676 624		10/11/1995	Simmonds Precision Products Inc.	<i>3</i>
<i>AD</i>	<i>3</i>	EP	0 803 364		10/29/1997	Canon Inc.	<i>3</i>
<i>AD</i>	<i>3</i>	EP	1 088 668		4/4/2001	Hewlett-Packard Company	<i>3</i>
<i>AD</i>	<i>3</i>	JP	10026549		1/27/1998	Nohken	<i>3</i>
<i>AD</i>	<i>3</i>	JP	07137276		5/30/1995	Canon Inc.	<i>3</i>
<i>AD</i>	<i>3</i>	EP	0 853 236		7/15/1998	Smiths Industries Public Limited Co.	<i>3</i>
<i>AD</i>	<i>3</i>	JP	04135862		5/11/1992	Seikosha Co. Ltd.	<i>3</i>
<i>AD</i>	<i>3</i>	JP	10-305590		11/17/1998	Matsushita Electric Co., Ltd.	<i>3</i>
<i>AD</i>	<i>3</i>	WO	99/42293		8/26/1999	Minnesota Mining & Manufacturing Co.	<i>3</i>
<i>AD</i>	<i>3</i>	EP	0 660 092		6/28/1995	Canon Inc.	<i>3</i>
<i>AD</i>	<i>3</i>	EP	0 553 535		8/4/1993	Seiko Epson Corporation	<i>3</i>
<i>AD</i>	<i>3</i>	JP	2000318183	<i>✓</i>	11/21/2000	Sony Corporation	<i>3</i>
<i>AD</i>	<i>3</i>	EP	0885731		12/23/98	Kanome	<i>3</i>
<i>AD</i>	<i>3</i>	EP	0860284	<i>✓</i>	08/26/98		<i>3</i>
<i>AD</i>	<i>3</i>	JP	10-323997	<i>✓</i>	12/08/98		<i>3</i>

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<i>AD</i>	<i>3</i>	US 2002/0105555, published 8/8/2002 to Tsukada et al.	<i>3</i>
<i>AD</i>	<i>3</i>	US 2002/0015084, published 2/7/2002 to Tsukada et al.	<i>3</i>
<i>AD</i>	<i>3</i>	US 2002/0012015, published 1/31/2002 to Tsukada et al.	<i>3</i>

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Sheet 4 of 6

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<i>AD</i>	<i>1</i>	US 4,196,625		04/08/80	Kern
<i>AD</i>	<i>2</i>	US 4,310,957		01/19/82	Sachs
<i>AD</i>	<i>3</i>	US 4,337,470		06/29/82	Furukawa
<i>AD</i>	<i>4</i>	US 4,570,482		02/18/86	Murata
<i>AD</i>	<i>5</i>	US 4,604,633		08/05/86	Kimura et al.
<i>AD</i>	<i>6</i>	US 4,677,448		06/30/87	Mizusawa et al.
<i>AD</i>	<i>7</i>	US 4,935,751		06/19/90	Hamlin
<i>AD</i>	<i>8</i>	US 4,977,413		12/11/90	Yamanaka et al.
<i>AD</i>	<i>9</i>	US 5,068,836		11/26/91	Steel
<i>AD</i>	<i>10</i>	US 5,132,711		07/21/92	Shinada et al.

## **FOREIGN PATENT DOCUMENTS**

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<i>AD</i>	<i>1</i>	CN	1274845		11/29/00		
<i>AD</i>	<i>2</i>	JP	2000-43287		02/15/00		
<i>AD</i>	<i>3</i>	JP	56-39413		04/15/81	Ota	
<i>AD</i>	<i>4</i>	JP	11-10909		01/19/99		
<i>AD</i>	<i>5</i>	JP	11-277760		10/12/99		
<i>AD</i>	<i>6</i>	JP	11-334107		12/07/99	Nakamura	
<i>AD</i>	<i>7</i>	JP	4-234670		08/24/92		

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<i>AD</i>	<i>1</i>	PATENT ABSTRACTS OF JAPAN, vol. 1995, no. 08, 29 September 1995 & JP 07 137276 A (Canon Inc.) 30 May 1995 abstract	
<i>AD</i>	<i>2</i>	US 2002-0170353, November 21, 2002, US 10/191423, Usui et al.	
<i>AD</i>	<i>3</i>	US 2003-0043216, March 6, 2003, US 10/243730, Usui et al.	
<i>AD</i>	<i>4</i>	US 2003-0117450, June 26, 2003, Usui et al.	
<i>AD</i>	<i>5</i>	US 2003-0117451, June 26, 2003, Usui et al.	
<i>AD</i>	<i>6</i>	US 2003-0140694, July 31, 2003, US 09/572849, Usui et al.	
<i>AD</i>	<i>7</i>	US 2003-0071862, US 10/019682, Tsukada et al.	

Examiner Signature	<i>Adh</i>	Date Considered	3/2/05
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<i>AS</i>	<i>AS</i>	US 5,233,369		08/03/93	Carlotta
<i>AS</i>	<i>AS</i>	US 5,506,611		04/09/96	Ujita et al.
<i>AS</i>	<i>AS</i>	US 5,610,635		03/11/97	Murray
<i>AS</i>	<i>AS</i>	US 5,635,961		06/03/97	
<i>AS</i>	<i>AS</i>	US 5,694,156		12/02/97	Hoisington et al.
<i>AS</i>	<i>AS</i>	US 5,835,817		11/10/98	Bullock et al.
<i>AS</i>	<i>AS</i>	US 5,841,454		11/24/98	Hall
<i>AS</i>	<i>AS</i>	US 5,900,888		05/04/99	Kurosawa

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AS		JP	5-318757	✓	12/03/93		
AS		JP	8-34123		02/06/96		
AS		JP	62-184856		08/13/87		
AS		EP	0803365		10/29/97		
AS		EP	0956964	✓	11/17/99		
AS		JP	11-020162		01/28/99		
AS		JP	56-061421	✓	10/17/84		
AS		JP	59-052422	✓	04/06/84		
AS		JP	1-067530	✓	05/01/89		
AS		JP	5-025325	✓	04/02/93		
AS		JP	2000-190523	✓	07/11/00		
AS		JP	56-39414		04/15/81		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
<i>AS</i>	<i>AS</i>	US 2002-0135623, September 26, 2002, Tsukada et al.	
<i>AS</i>	<i>AS</i>	US 2002-0015068, February 7, 2002, Tsukada et al.	

Examiner Signature	<i>AS</i>	Date Considered	3/2/05
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Substitute for Form 1449 A & B/PTO  <b><u>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</u></b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
		Application Number		10/049,830	
		Confirmation Number		6300	
		Filing Date		February 19, 2002	
		First Named Inventor		Kenji TSUKADA	
		Art Unit		2853	
		Examiner Name		Alfred E. Dudding <i>AN DO</i>	
		Attorney Docket Number		Q67368	
Sheet		6		of 6	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
<i>AD</i>	}	US 6,003,966		12/21/99	Ahn
<i>AD</i>		US 6,012,794		01/11/00	Nakano et al.
<i>AD</i>		US 6,024,429		02/15/00	Coffy et al.
<i>AD</i>		US 6,155,664		12/05/00	Cook
<i>AD</i>		US 6,254,212		07/03/01	Coudray et al.
<i>AD</i>		US 6,344,658		02/05/02	Nakagawa et al.
<i>AD</i>		US 6,347,853		02/19/02	Kato
<i>AD</i>		US 6,416,152		07/09/02	Matsuzaki et al.
<i>AD</i>		US 6,435,638		08/20/02	Wilson
<i>AD</i>		US 6,438,500		08/20/02	Froger et al.

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
AD	}	JP	56-53078		05/12/81	}	}
		JP	58-201027		11/22/83		
		JP	63-295266		12/01/88		
		JP	10-038662		02/13/98		
		JP	10-151753		06/09/98		
		JP	11-048490		02/23/99		
		JP	3-038037		02/15/91		
		JP	3-211907		09/17/91		
		JP	3-218847		09/26/91		
		JP	6-155762		06/03/94		
		JP	9-020013		01/21/97		
		JP	9-029991		02/04/97		
		JP	9-039263		02/10/97		
		JP	9-220216		08/26/97		
		JP	9-267488		10/14/97		

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Examiner Signature <i>Adh</i>	Date Considered <i>3/2/05</i>
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		Number	Kind Code <sup>2</sup> (if known)		
<i>AD</i>		US 3,394,589		7/30/1968	Genichiro Tomioka
		US			
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**FOREIGN PATENT DOCUMENTS**

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<i>AD</i>		JP	7-137291		5/30/1995		

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Examiner Name \_\_\_\_\_

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<i>JS</i>	<i>1</i>	US 5,264,831	<i>2</i>	09/28/1993	
<i>JS</i>	<i>2</i>	US 5,524,486		06/11/1996	
<i>JS</i>	<i>3</i>	US 5,247,832		11/23/1993	
	<i>4</i>	US			
	<i>5</i>	US			
	<i>6</i>	US			
	<i>7</i>	US			
	<i>8</i>	US			
	<i>9</i>	US			

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AD		US 5,319,973		06/14/1994	Crayton et al.
		US			
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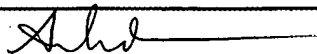
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		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
AD		GB	2 321 107	A	07/15/1998		
AD		JP	10-175312		06/30/1998		
AD		JP	03-169642		07/23/1991		
AD		JP	09-286121		11/04/1997		

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